

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,162,102 B2  
APPLICATION NO. : 10/025357  
DATED : January 9, 2007  
INVENTOR(S) : Cahill et al.

Page 1 of 12

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Delete Title page illustrating a figure(s), and substitute therefor, new Title page illustrating a figure(s). (attached)

Delete drawing sheet 1-10, and substitute therefor drawing sheet 1-10. (attached)

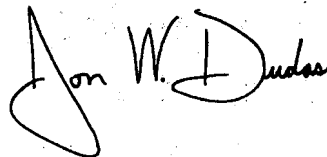
Claim 10, Column 21, Line 48      In Claim 10, after "ratio is" insert -- one of --.

Claim 19, Column 23, Line 1      In Claim 19, delete "5," and insert -- 18, --, therefor.

Claim 25, Column 24, Lines 33-39      In Claim 25, after "digital image" delete "and wherein the source digital images have pixel values that are linearly or logarithmically related to scene intensity and the step of providing source digital images further comprises applying a metric exposure transform to a source digital image such that the pixel values of the source digital image are changed by said transform and are linearly or logarithmically related to scene intensity".

Signed and Sealed this

Fourth Day of September, 2007



JON W. DUDAS  
*Director of the United States Patent and Trademark Office*

(12) **United States Patent**  
Cahill et al.

(10) Patent No.: **US 7,162,102 B2**  
(45) Date of Patent: **Jan. 9, 2007**

(54) **METHOD AND SYSTEM FOR  
COMPOSITING IMAGES TO PRODUCE A  
CROPPED IMAGE**

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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 610 days.

(21) Appl. No.: 10/025,357

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(65) Prior Publication Data

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(51) Int. Cl.  
*G06K 9/36* (2006.01)

(52) U.S. Cl. .... 382/288; 382/284

(58) Field of Classification Search .... 382/284,  
382/153, 294, 167, 159, 288; 348/441-459,  
348/556; 396/436

See application file for complete search history.

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Primary Examiner—Daniel Miriam

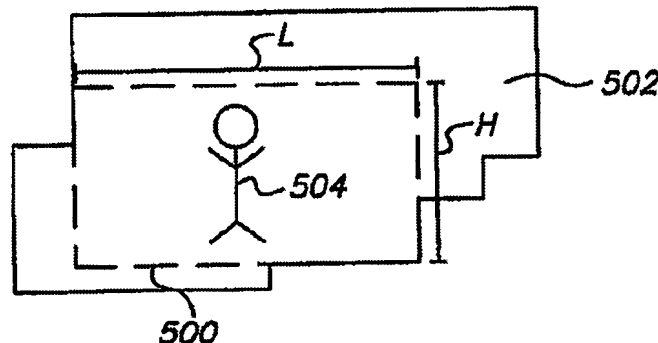
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(57) **ABSTRACT**

A method for producing a cropped digital image, includes  
the steps of: providing a plurality of partially overlapping  
source digital images; providing a cropping aspect ratio  $L:H$ ,  
the cropping aspect ratio being the ratio of the length to the  
height of the cropped digital image; providing a cropping  
criterion, the cropping criterion being a criterion for the size  
and location of the cropped digital image; combining the  
source digital images to form a composite digital image;  
selecting the cropping region of the composite digital image  
according to the cropping criterion, said cropping region  
being a rectangular region having aspect ratio  $L:H$ , and  
having size and location determined by the cropping crite-  
rion; and, cropping the composite digital image to the  
cropping region to form a cropped digital image.

25 Claims, 10 Drawing Sheets



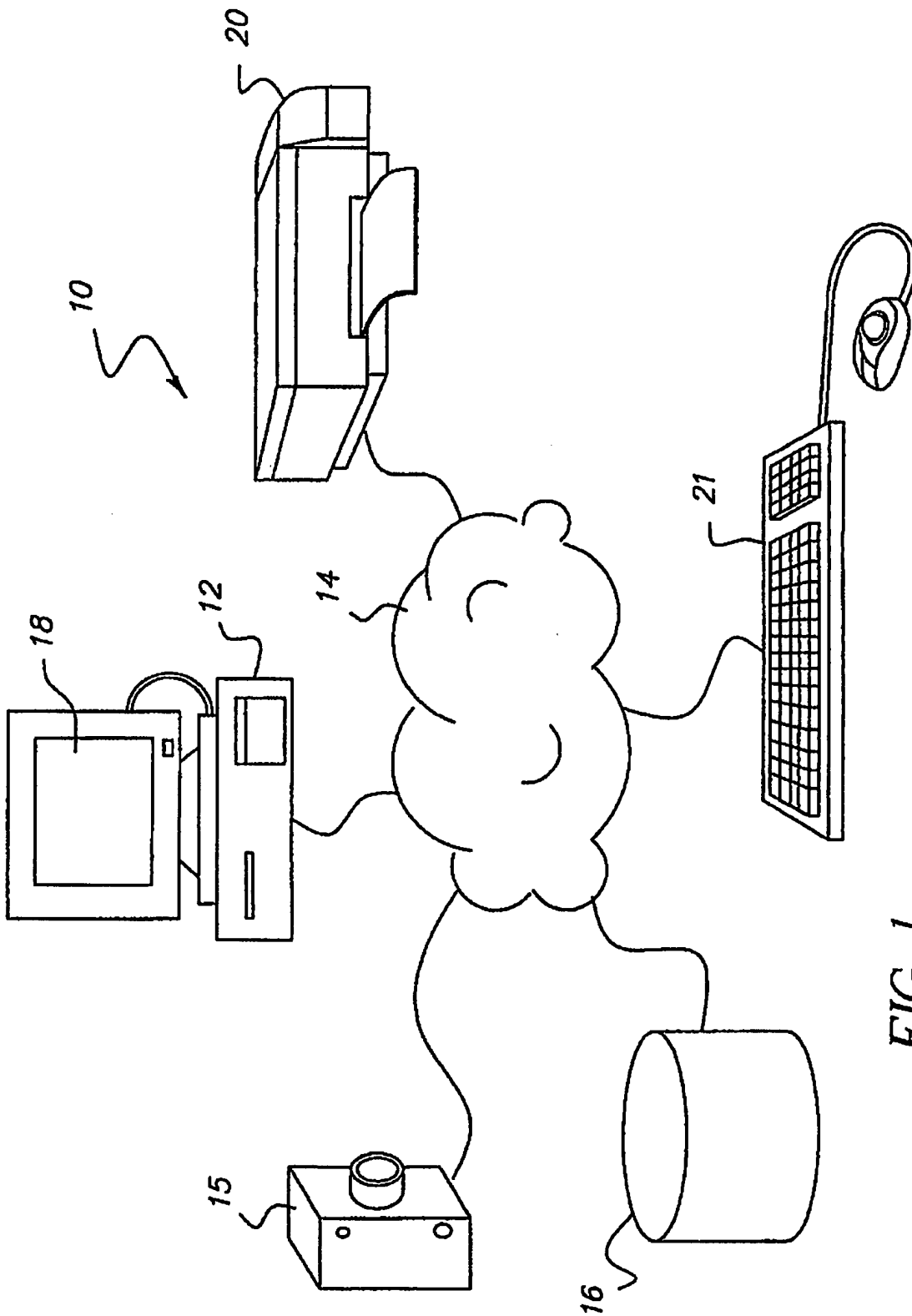


FIG. 1

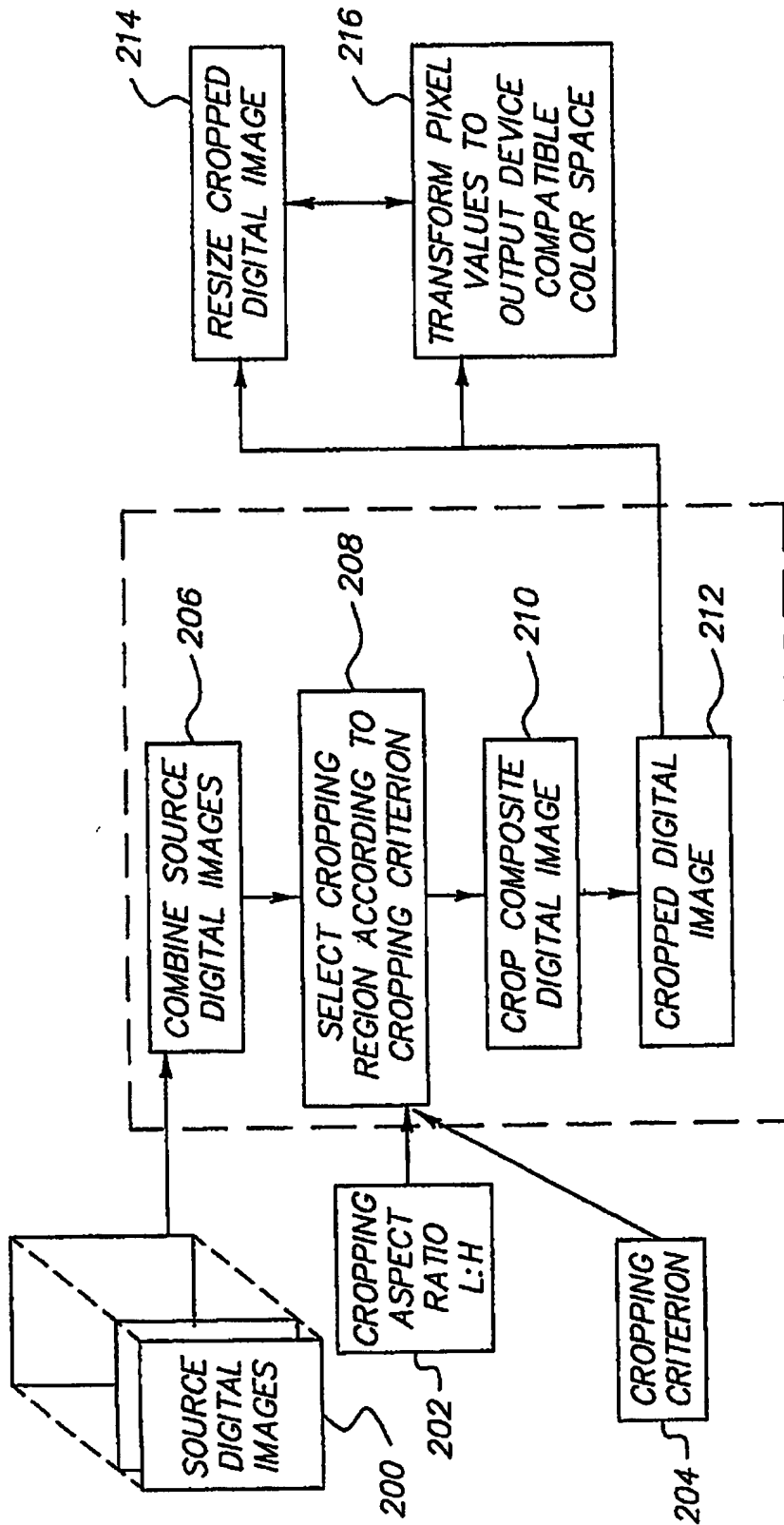


FIG. 2

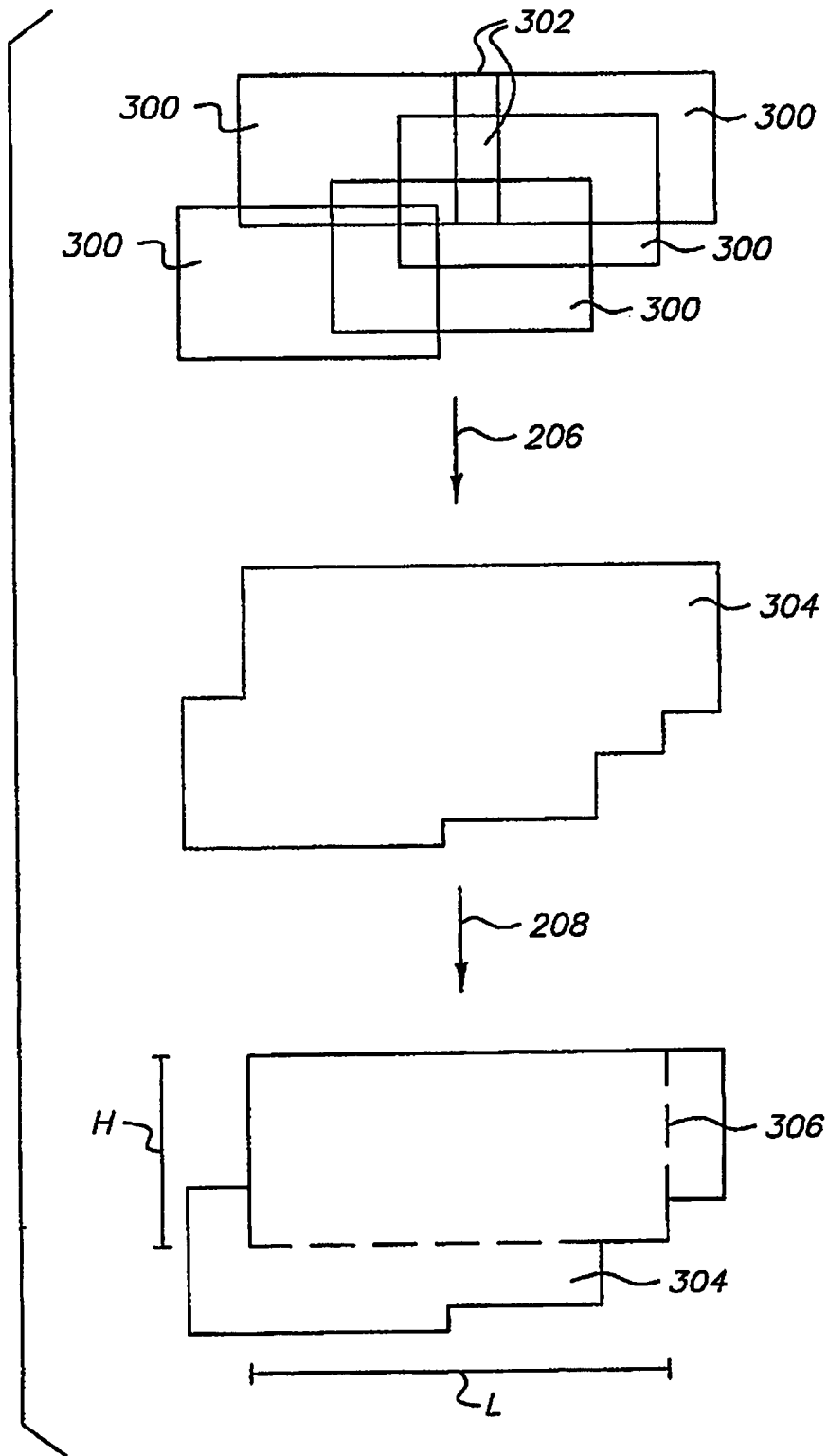


FIG. 3

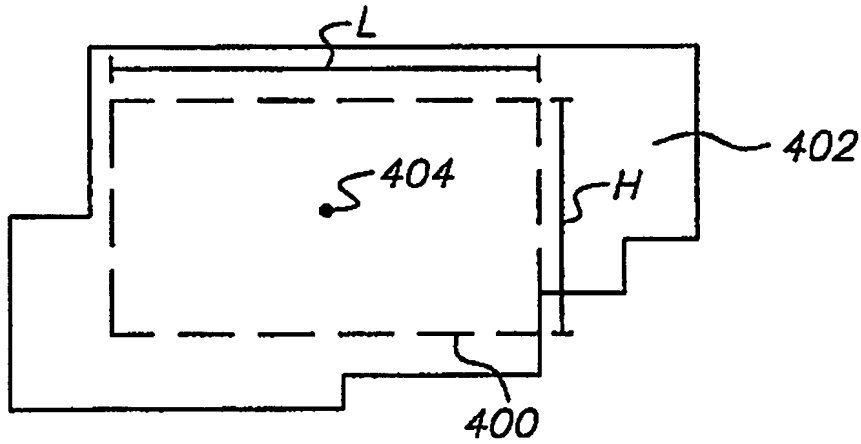


FIG. 4

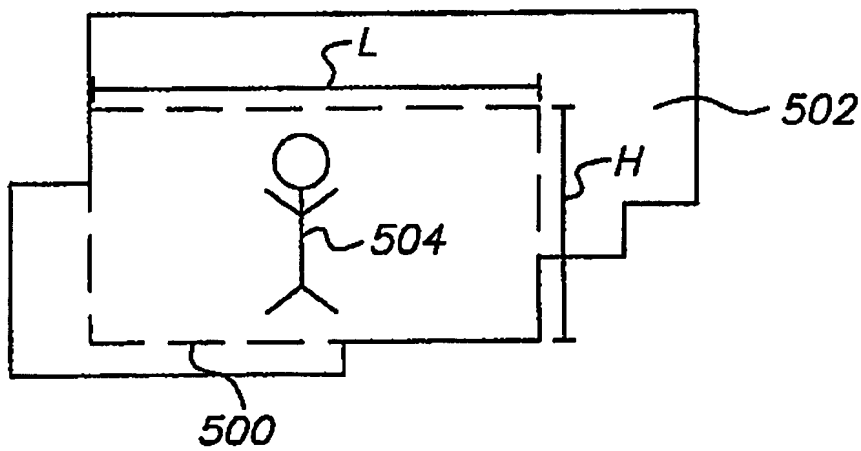


FIG. 5

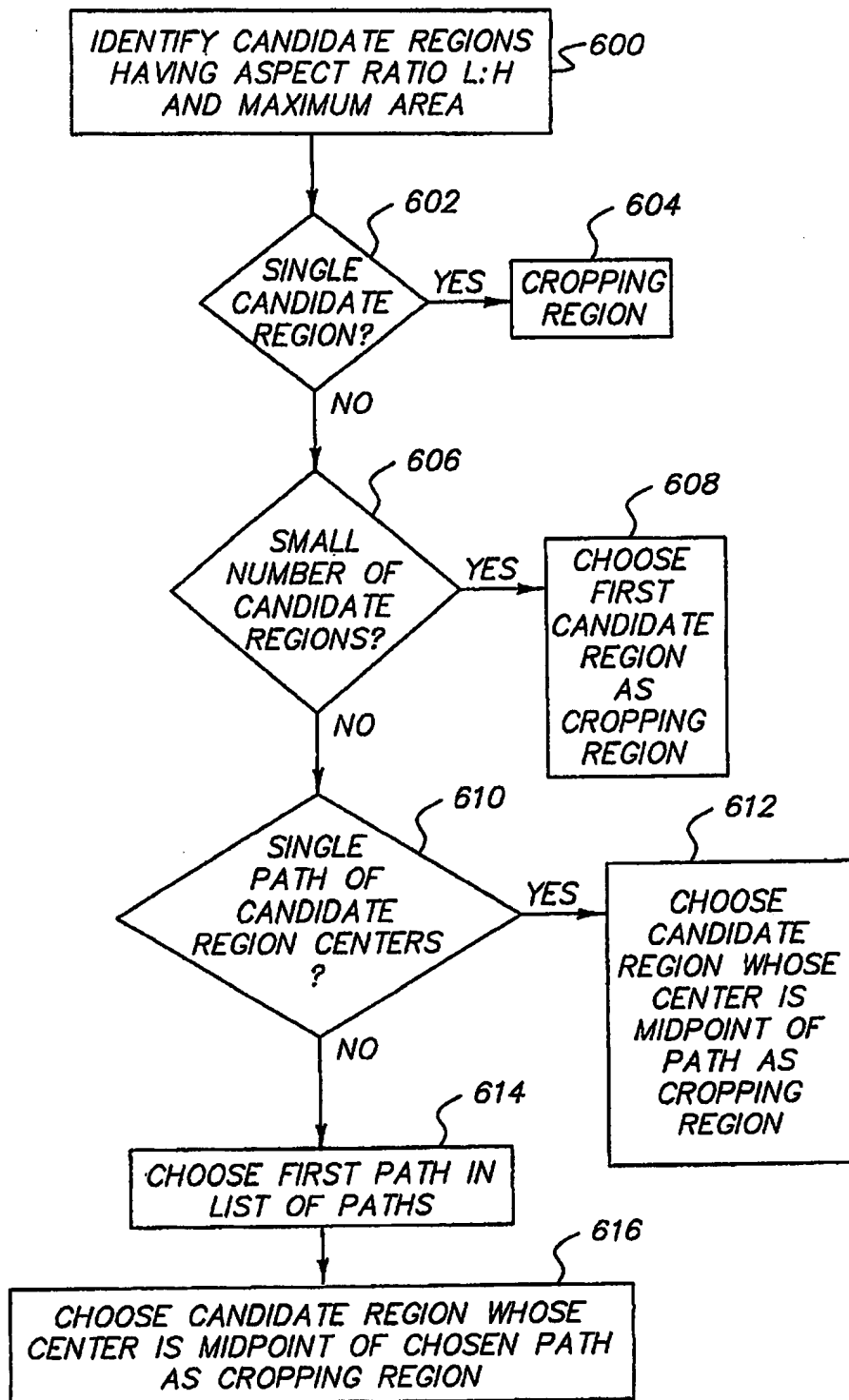


FIG. 6

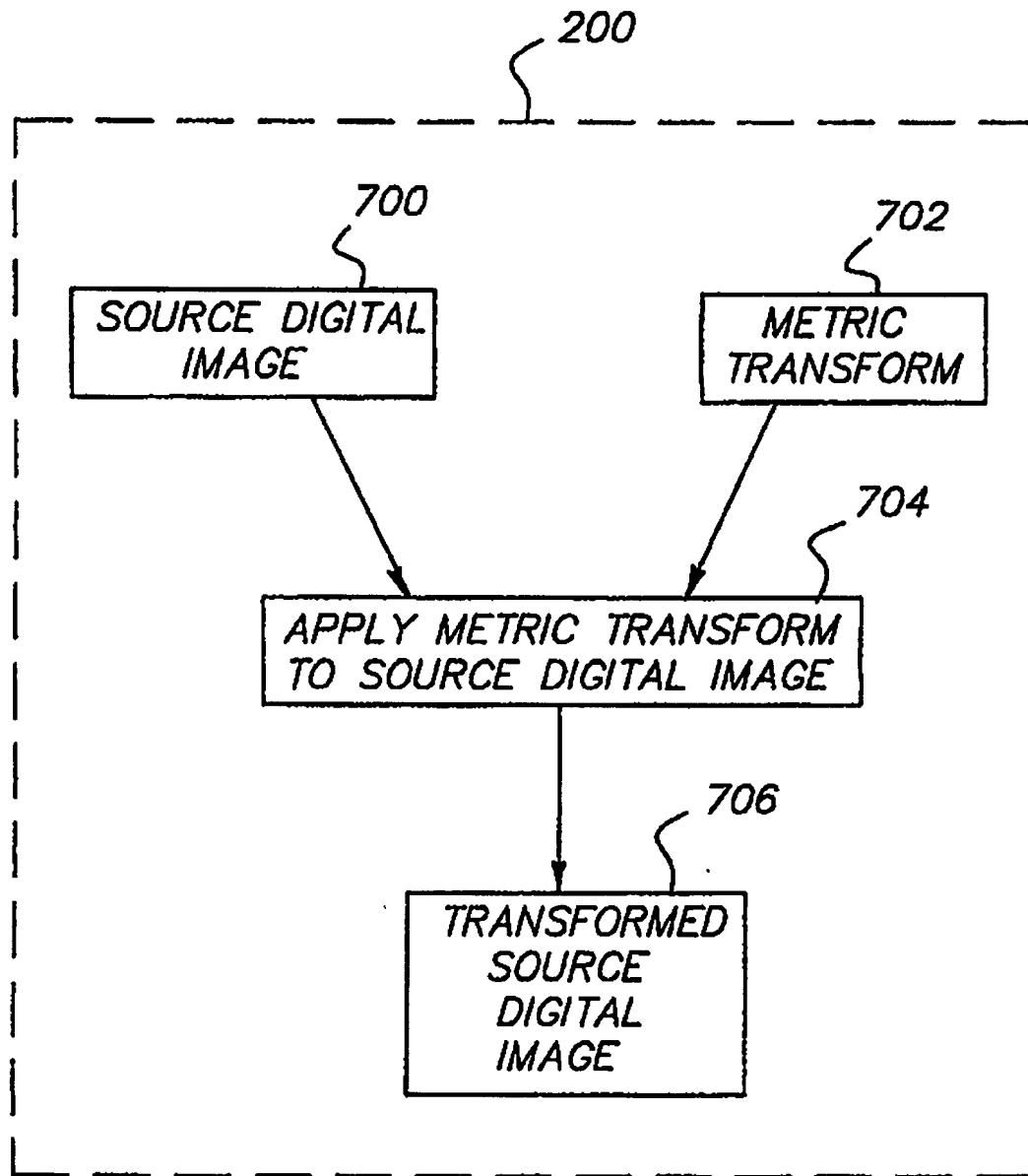
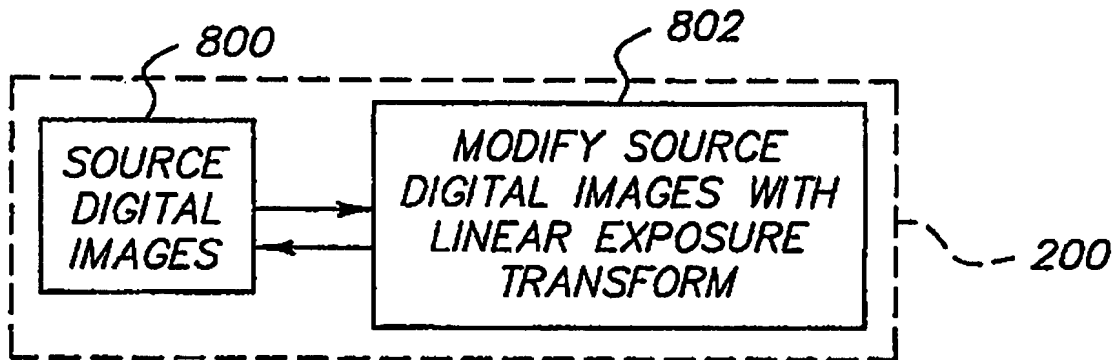
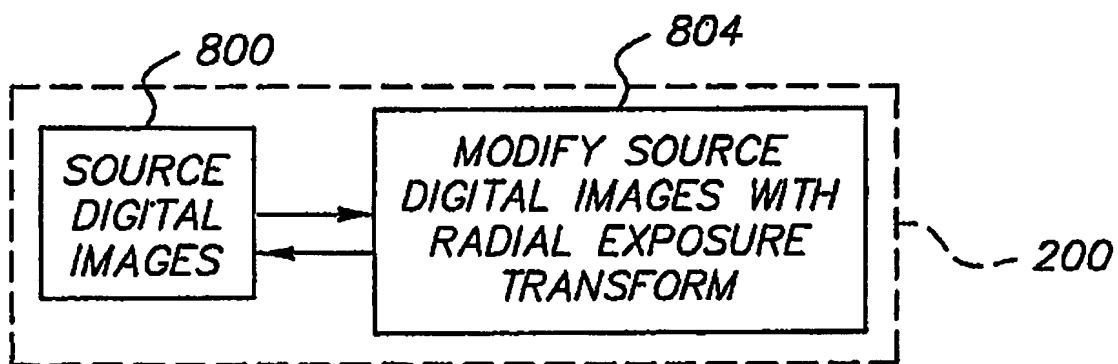


FIG. 7



*FIG. 8A**FIG. 8B*

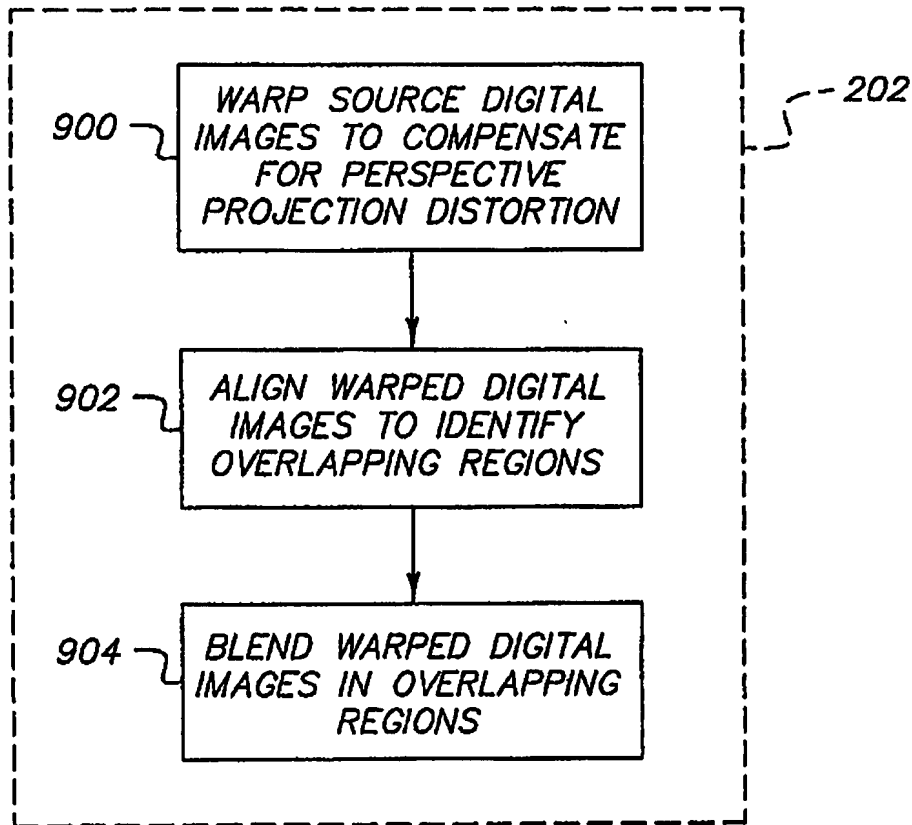


FIG. 9

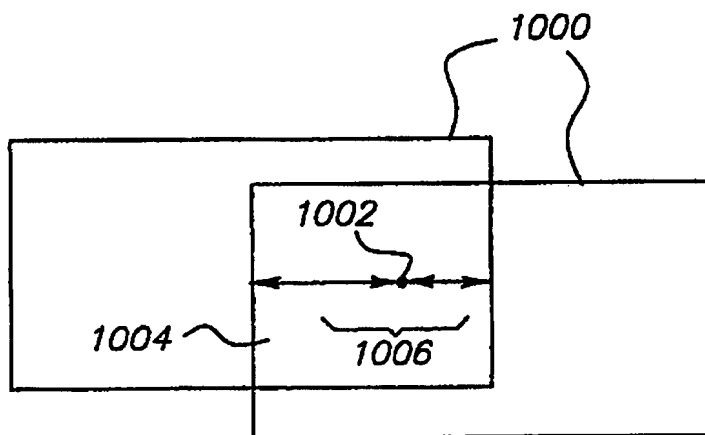
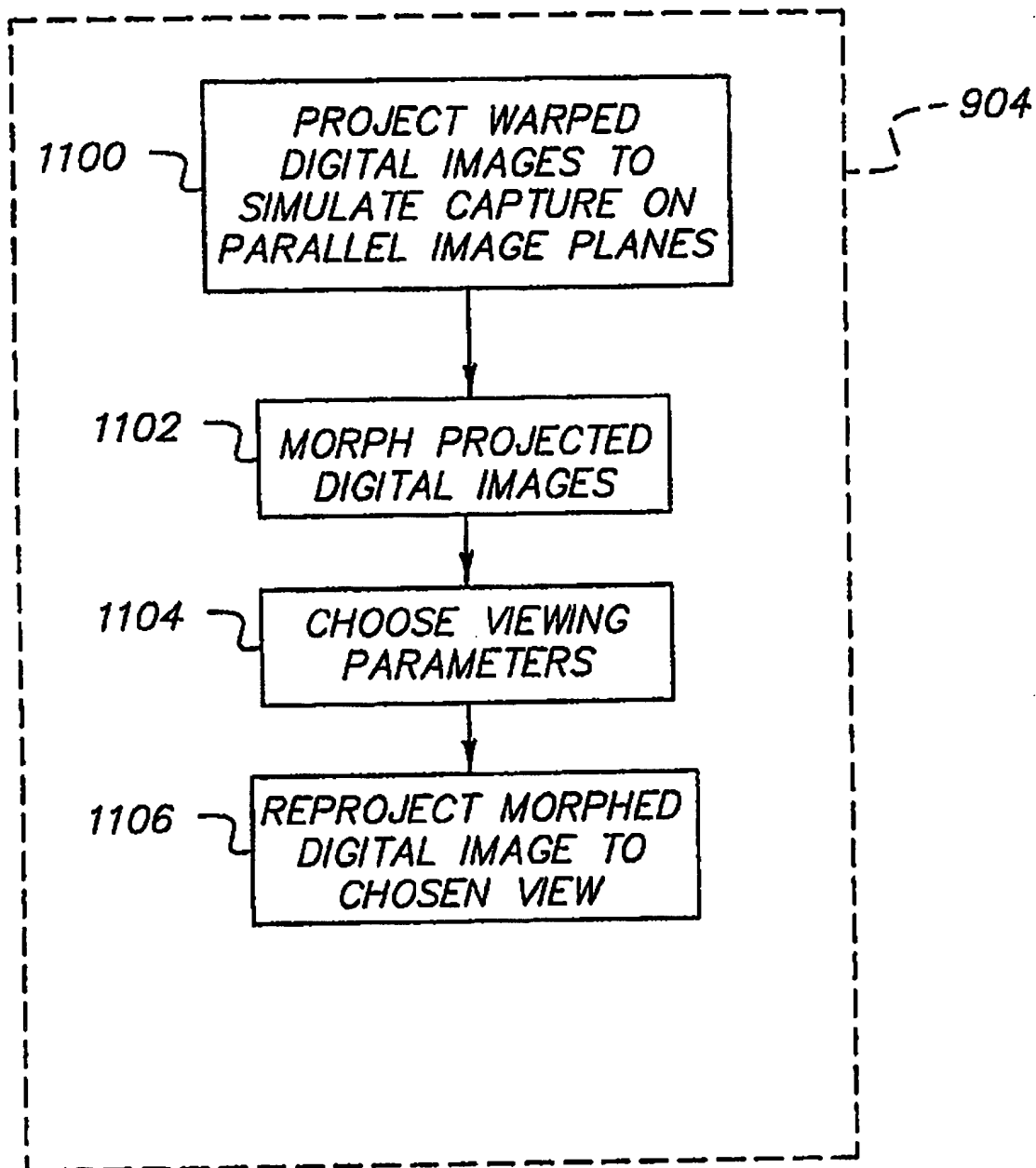


FIG. 10

*FIG. 11*

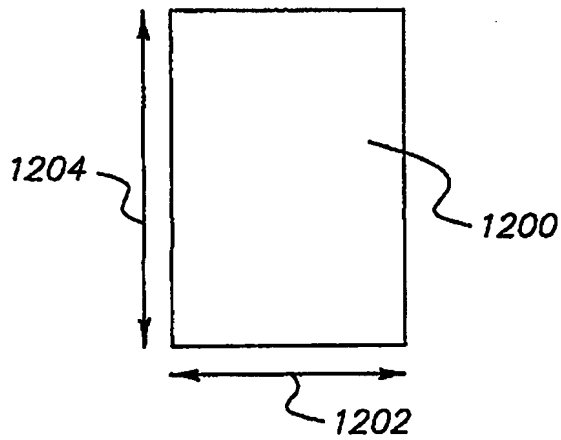


FIG. 12A

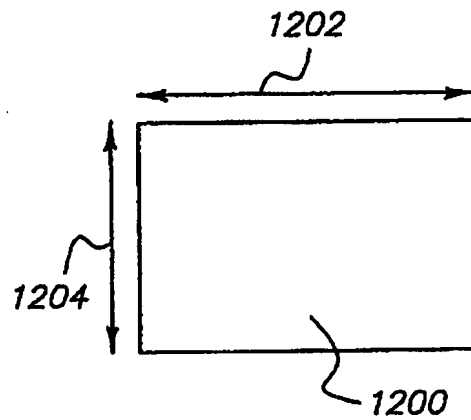


FIG. 12B

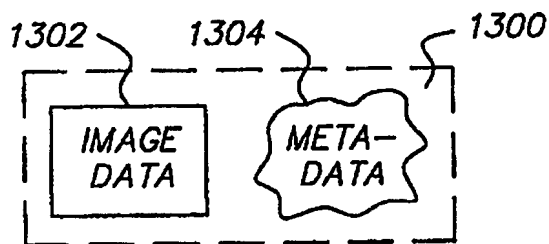


FIG. 13A

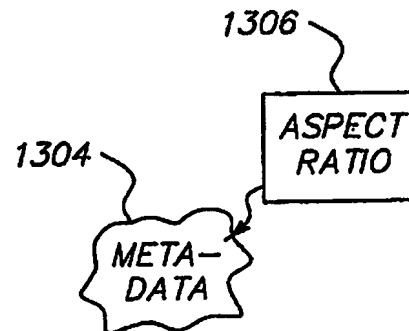


FIG. 13B